

2009 STORM DRAINAGE REQUIREMENTS WORKSHEET

Project Name: _____ Site Address: _____

Runoff Control Requirement Applicability (Code section 24.06.130)

Subdivisions - Number of lots proposed: _____

- Property area: _____ Acres

- Will an existing house remain? ☐ Yes ☐ No

(Note: a 2-lot subdivision, with existing house remaining, can receive the single family exemption from runoff control and treatment, for adding only one new building lot. At least 12 months must pass between subdivision recording and application for house replacement or demolition for the exemption to apply; or, at least 12 months must pass between the occupancy of a house on the original lot, and the application for subdivision.)

- Number of lots ÷ acres = _____ Dwelling Units/Gross Acre (DU/GA)

Use the following table to select the % of proposed impervious surface.

(Example: 3 proposed lots on 1.65 acres = 1.82 DU/GA; choose 2.0 DU/GA and use 25% Impervious. Then, using the following formula: 25% x 1.65 acres = 0.4125 acres x 43,560 sq. ft. = 17,968.5 sq. ft. proposed impervious surface)

_____% x _____ acres = _____ acres x 43,560 sq. ft. = _____ sq.ft. proposed impervious surface

Dwelling Unit/Gross Acre	% Impervious
1.0 DU/GA	15
1.5 DU/GA	20
2.0 DU/GA	25
2.5 DU/GA	30
3.0 DU/GA	34
3.5 DU/GA	38
4.0 DU/GA	42
4.5 DU/GA	46
5.0 DU/GA	48
5.5 DU/GA	50
6.0 DU/GA	52
6.5 DU/GA	54
7.0 DU/GA	56

Commercial or Multifamily - Brief description: _____

Property area: _____ Acres x 43,560 Sq. ft. = _____ sq. ft.

Existing impervious surface area: _____ Sq. ft.

Proposed impervious surface area, after development: _____ sq. ft.

Determining the Runoff Control Requirement

_____ sq ft. proposed impervious surface (whether it will remain or not), less _____ sq ft. existing impervious surface = _____ sq. ft. net new impervious surface.

Runoff Control is required for the entire site, less recorded NGPA area, if net new impervious surface is 5000 sq. ft. or more.

Type of Runoff Control proposed:

- ☐ Detention vault or tank ☐ Detention pond ☐ Infiltration system
☐ 100 yr conveyance provided to Lake Washington or Lake Sammamish ☐ No Detention Zone (CBD)

Hydrologic Soil Type *: ☐ A ☐ B ☐ C ☐ D

* per the City of Bellevue map; site investigation may prove otherwise

If Right-of-Way improvements are required, the right-of-way portion has it's own thresholds. Use the Commercial applicability section to determine if runoff control is required. ☐ yes ☐ no

Water Quality Treatment Requirement Applicability

The site drains to the _____ Drainage Basin *, which drains to:

- ☐ Lake Washington – Conventional Treatment
Provide treatment for all driving and parking surfaces, if they total 5000 sq. ft. or more
- ☐ Phantom or Larsen Lake / Lake Sammamish - Nutrient Treatment
Provide treatment for all driving, parking and landscaped surfaces, if they total 5000 sq. ft. or more

Proposed pollutant-generating surface area: _____ sq. ft.

* per the City of Bellevue map; site investigation may prove otherwise

Is WQ Treatment required? ☐ Yes ☐ No

BMP chosen from Utility Engr Std, Table 5.2.

Conventional Treatment Only

- ☐ Sand Filter
- ☐ Wet Pond
- ☐ Vegetated Filter Strip
- ☐ Bioswale
- ☐ Dead Storage in Vault/Tank (preference #2 – see table 5.2 for instruction)
- ☐ Other _____ (requires special approval)

Conventional and Nutrient Treatment

- ☐ Wet Pond with Marsh
- ☐ Constructed Stormwater wetland
- ☐ Infiltration
- ☐ Treatment Train _____

Is oil control required, other than a spill control separator, for land uses listed in Utility Engr. Std. Table 5.1? ☐ Yes ☐ No

BMP chosen: ☐ CPS Separator ☐ API Separator

OTHER INFORMATION

Split Basins – If the site drains to more than one stream basin, runoff control thresholds apply to each portion, provided that the existing drainage patterns are preserved. Discuss further implications with a Utility reviewer.

Off-Site Runoff – Drainage from off-site areas must by-pass the runoff control and treatment facilities, except for the allowance described in Utility Engineering Standards section D-4.06.2 A

Substitution Area – If an area cannot drain to the runoff control facility, compensatory volume is required. In limited cases, an area can be substituted, provided that the area is under the same property ownership, or is granted special approval by the Utility Department. This works well for Right-of-Way.

Conveyance System - Must be sized for the 100 year 24 hour design storm

Consult the Utility Code and Engineering Standards, Surface Water section for more information.